

# Knobbe Martens Olson & Bear LLP

Intellectual Property Law



101 823091

2040 Main Street  
Fourteenth Floor  
Irvine, CA 92614  
Tel 949-760-0404  
Fax 949-760-9502  
www.kmob.com

*copy*

Bruce S. Itchkawitz, Ph.D.  
bsi@kmob.com

January 22, 2007

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Title: **SYSTEM AND METHOD FOR USING MICROGYROS TO  
MEASURE THE ORIENTATION OF A SURVEY TOOL WITHIN A  
BOREHOLE**

Letters Patent No. 7,117,605

Issued: October 10, 2006

Our Reference: GYRO.008A

Dear Sir:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

As the errors cited in the Certificate of Correction were incurred through the fault of the Applicant, enclosed is our check in the amount of \$100. Please charge any additional fees to our Deposit Account No. 11-1410.

Respectfully submitted,

Knobbe, Martens, Olson & Bear, LLP

Bruce S. Itchkawitz  
Registration No. 47,677  
Customer No. 20,995

01/26/2007 SDENBOB1 00000007 7117605

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Enclosures

3330629: clk  
012207

**Certificate**

JAN 30 2007

**of Correction**

JAN 31 2007

San Diego  
619-235-8550

San Francisco  
415-954-4114

Los Angeles  
310-551-3450

Riverside  
951-781-9231

San Luis Obispo  
805-547-5580

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

**PATENT NO.** : 7,117,605  
**APPLICATION NO.** : 10/823,091  
**ISSUE DATE** : October 10, 2006  
**INVENTOR(S)** : Ekseth et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 12, after 6,347,282, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 16, after 6,484,818, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 17, after 6,655,460, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 18, after 6,659,201, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 19, after 6,845,665, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 20, after 6,848,304, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 21, after 6,859,751, delete "B1" and insert --B2--.

On Page 2, Col. 1 ("U.S. Patent Documents"), Line 22, after 6,895,678, delete "B1" and insert --B2--.

On Page 2, Col. 2 ("Other Publications"), Line 5, delete "Stimulate" and insert --Simulate--.

On Col. 10, Equation 3, after  $SD_p = \sqrt{\frac{\sum_i W_i * (R_i - R_p)^2}{(N-1) * \sum_i W_i}}$ , delete ".".

On Col. 11, Line 11, delete " $R_\alpha$ " and insert --" $R_a$ "--.

On Col. 11, Equation 6, delete " $W_j = \left( \frac{SD_{p,j} N_{e,j}}{N} \right)^2$ " and insert --" $W_j = \left( \frac{SD_{p,j} * N_{e,j}}{N} \right)^2$ --.

On Col. 12, Equation 8, delete " $\Sigma_{101,k}$ ," and insert -- $\Sigma_{\Phi,k}$ ;;--.

On Col. 14, Lines 62-63, delete "misalignments," and insert --misalignments,--.

On Col. 15, Line 12, delete " $\sigma_{107}$ " and insert -- $\sigma_w$ --.

### MAILING ADDRESS OF SENDER:

Bruce S. Itchkawitz  
 KNOBBE, MARTENS, OLSON & BEAR, LLP  
 2040 Main Street, 14<sup>th</sup> Floor  
 Irvine, California 92614

DOCKET NO. GYRO.008A

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CERTIFICATE OF CORRECTION

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Page 2 of 2

On Col. 15, Equation 20, delete " $dX_1 = [d\omega_{z1} dB_{a1} dB_{b1} dM_1]^T$ " and insert

--  $dX_1 = [d\omega_{z1} \quad dB_{a1} \quad dB_{b1} \quad dM_1]^T$  --.

On Col. 15, Line 50, delete " $X'_1 = [\omega'_{z1} B'_{a1} B'_{b1} M'_1]^T$ " and insert --  $X'_1 = [\omega'_{z1} \quad B'_{a1} \quad B'_{b1} \quad M'_1]^T$  --.

On Col. 16, Equation 30, delete " $X'_k = [\omega'_{zk} B'_{ak} B'_{bk} M'_k]^T$ " and insert --  $X'_k = [\omega'_{zk} \quad B'_{ak} \quad B'_{bk} \quad M'_k]^T$  --.

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